



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-11-18-03 Date: 21/11/2017

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads & drains at Anjjaneya Temple area Abbigere in ward No.12 in Shettyhalli sub division.

Agency : Technical Manager(West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block Rajajinagar, Bangalore-560 010.

Customer's Reference : BBMP/EE/DD/WO/118/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-11-17

Sample ID No : 2017-11-18-03/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/11/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	14/11/2017	21/11/2017	150.23 X 150.22 X 150.28	22568	8.421	390.4	17.3	17.7
2	Drain Concrete	M20	14/11/2017	21/11/2017	150.13 X 150.17 X 150.19	22545	8.322	399.0	17.7	
3	Drain Concrete	M20	14/11/2017	21/11/2017	150.22 X 150.29 X 150.22	22577	8.414	410.9	18.2	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

AE-12
ನವಾಬ್ ಕಾಂತ್ ಬಾಲ್ಕು ಅಭಿಯಂತರರು
ಪಟ್ಟಿಪಟ್ಟ ಉಪವಿಭಾಗ, ದಾಸರವಳ್ಳಿ ಪಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ನಾಲ್ಕನೇ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು



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Sig. *R. Karthik Rechan*
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-11-18-03 **Date:** 12/12/2017

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads & drains at Anjjaneya Temple area Abbigere in ward No.12 in Shettyhalli sub division.

Agency : Technical Manager(West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block Rajajinagar, Bangalore-560 010.

Customer's Reference : BBMP/EE/DD/WO/118/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-11-17

Sample ID No : 2017-11-18-03/04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/12/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	14/11/2017	12/12/2017	150.21 X 150.20 X 150.28	22562	8.378	482.8	21.4	21.9
2	Drain Concrete	M20	14/11/2017	12/12/2017	150.13 X 150.10 X 150.12	22535	8.243	498.0	22.1	
3	Drain Concrete	M20	14/11/2017	12/12/2017	150.21 X 150.25 X 150.22	22569	8.377	503.3	22.3	

Note:

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಜಿಲ್ಲಾಕಟ್ಟು ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ಪುರಂ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು



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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE - 3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-11-18-03 Date: 23/11/2017

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads & drains at Anjjaneya Temple area Abbigere in ward No.12 in Shettyhalli sub division.

Agency : Technical Manager(West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block Rajajinagar, Bangalore-560 010.

Customer's Reference : BBMP/EE/DD/WO/118/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-11-17

Sample ID No : 2017-11-18-03/05

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/11/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	16/11/2017	23/11/2017	150.66 X 151.48 X 150.44	22822	8.154	390.3	17.1	17.6
2	Drain Concrete	M20	16/11/2017	23/11/2017	150.69 X 150.47 X 150.99	22674	8.198	412.7	18.2	
3	Drain Concrete	M20	16/11/2017	23/11/2017	150.49 X 150.66 X 150.95	22673	8.198	396.8	17.5	

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶಿಕ್ಷಣ, ಸುವರ್ಣಾ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.



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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-11-18-03 **Date:** 14/12/2017

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads & drains at Anjjaneya Temple area Abbigeri in ward No.12 in Shettyhalli sub division.

Agency : Technical Manager(West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block Rajajinagar, Bangalore-560 010.

Customer's Reference : BBMP/EE/DD/WO/118/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-11-17

Sample ID No : 2017-11-18-03/06

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/12/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	16/11/2017	14/12/2017	149.78 X 151.74 X 149.83	22728	8.149	531.8	23.4	23.4
2	Drain Concrete	M20	16/11/2017	14/12/2017	150.44 X 150.79 X 150.66	22685	8.145	524.0	23.1	
3	Drain Concrete	M20	16/11/2017	14/12/2017	150.98 X 150.63 X 150.59	22742	8.036	539.0	23.7	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-11-18-03 **Date:** 23/11/2017

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads & drains at Anjjaneya Temple area Abbigere in ward No.12 in Shettyhalli sub division.

Agency : Technical Manager(West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block Rajajinagar, Bangalore-560 010.

Customer's Reference : BBMP/EE/DD/WO/118/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-11-17

Sample ID No : 2017-11-18-03/07

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/11/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	16/11/2017	23/11/2017	150.99 X 150.31 X 151.74	22695	8.147	415.3	18.3	18.0
2	Drain Concrete	M20	16/11/2017	23/11/2017	150.97 X 150.66 X 150.47	22745	8.197	395.8	17.4	
3	Drain Concrete	M20	16/11/2017	23/11/2017	151.28 X 150.74 X 151.81	22804	8.157	419.6	18.4	

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Lab ID : CP-2017-11-18-03 Date: 14/12/2017
 Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
 Address : Shettyhalli Sub Division, BBMP, Bangalore.
 Project Name : Improvements to roads & drains at Anjjaneya Temple area Abbigere in ward No.12 in Shettyhalli sub division.
 Agency : Technical Manager(West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block Rajajinagar, Bangalore-560 010.
 Customer's Reference : BBMP/EE/DD/WO/118/2017-18
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 18-11-17
 Sample ID No : 2017-11-18-03/08
 Customer ID : Drain Concrete
 Sample Type /Size : 150X150X150 mm
 Sample grade/Age : M20 / 28 Days Compressive Strength
 Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
 Date of test : 14/12/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	16/11/2017	14/12/2017	150.41 X 150.99 X 150.32	22710	8.168	547.3	24.1	23.7
2	Drain Concrete	M20	16/11/2017	14/12/2017	150.77 X 150.98 X 150.33	22763	8.195	528.1	23.2	
3	Drain Concrete	M20	16/11/2017	14/12/2017	150.97 X 150.33 X 150.97	22695	8.147	537.9	23.7	

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